



Important!

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustments should be performed by Black & Decker Service Centers or other qualified service organizations, always using Black & Decker replacement parts.

Black & Decker's full two year home use warranty states that, in case of a defect, you may return the tool to the place of purchase for a free replacement (if it is a participating retailer) or you may take it to a Black & Decker Service Center.

Home Use Warranty (A Full Two Year Warranty)

Black & Decker (U.S.) Inc. warrants this product for two years against any defects that are due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to the seller, (if a participating retailer) for free replacement (proof of purchase may be required). The unit may also be returned to a Black & Decker Service Center or Authorized Service Station listed under "Tools, Electric" in the yellow pages for free replacement or repair at our option. This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state. Should you have any questions, contact your nearest Black & Decker Service Center Manager.

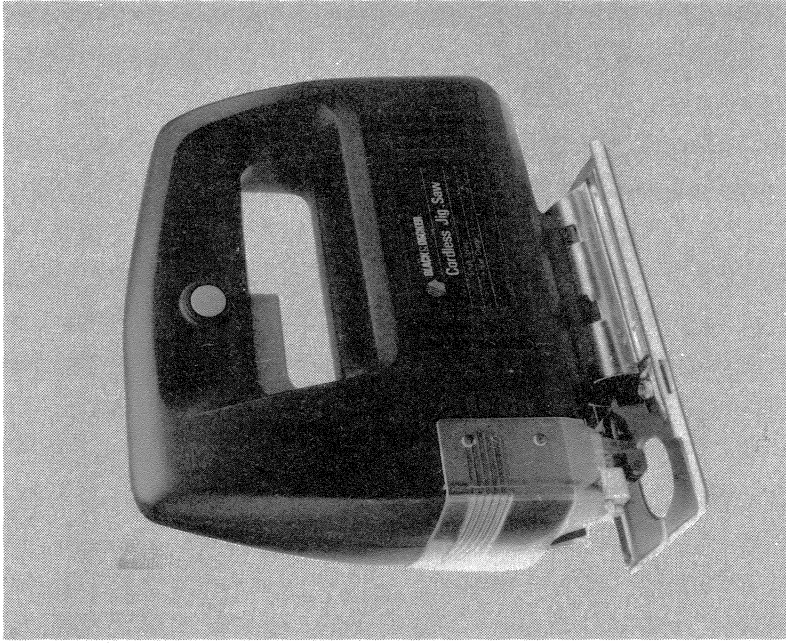
Like most Black & Decker tools, this tool is listed by Underwriters' Laboratories to ensure that it meets stringent safety requirements.



This symbol on the name plate means the product is listed by Underwriters' Laboratories, Inc.



See 'Tools-Electric'
— Yellow Pages —
for Service & Sales



Instruction Manual

Cordless Jig Saw 9011

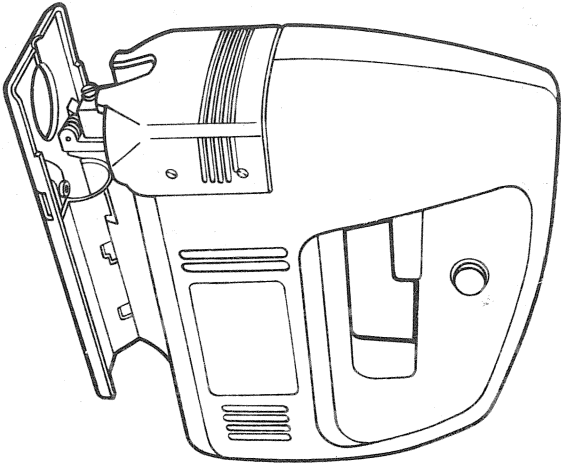
BLACK & DECKER.

BLACK & DECKER (U.S.) INC., U.S. Power Tools Group, 10 North Park Drive, P.O. Box 798, Hunt Valley, MD 21030-0798 U.S.A.

Form No. 741385

(Dec 87-2) ©1987 Printed in England

PART No. 830860



Thanks for buying a Black & Decker Cordless Jig Saw.

Your new CORDLESS JIG SAW is very versatile. It offers the ultimate in convenience and electrical safety. You can forget the electrical outlet, forget the cord and take your CORDLESS JIG SAW anywhere.

For safe and efficient operation of your new CORDLESS JIG SAW, please take the time to read all the safety rules and operating instructions. Be aware that this is always in an operating condition, because it is battery powered and does not have to be plugged into an electrical outlet.

Don't forget to send in your owner's registration card. Thanks again for buying Black & Decker.

Important Safety Instructions

WARNING: When using Cordless Tools, basic safety precautions should always be followed to reduce risk of fire, shock, and personal injury, including the following:

READ ALL INSTRUCTIONS

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit.
3. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example, pipes, radiators, ranges, refrigerator enclosures.
4. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
5. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place—out of reach of children.
6. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
7. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended, for example, don't use circular saw for cutting tree limbs or logs.
8. **DRESS PROPERLY.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
9. **USE SAFETY GLASSES.** Also use face or dustmask if cutting operation is dusty.
10. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. **DON'T OVERREACH.** Keep proper footing and balance at all times.
12. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safe performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.
13. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
14. **AVOID UNINTENTIONAL STARTING.** Don't carry tool with finger on trigger.
15. **STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
16. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
17. **DO NOT OPERATE** tools near flammable liquids or in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

SAVE THESE INSTRUCTIONS FOR FUTURE USE



Important Charger & Jig Safety Instructions

THIS MANUAL CONTAINS IMPORTANT INSTRUCTIONS FOR THE PROPER USE AND OPERATION OF THE CHARGER AND JIG SAW. READ THESE INSTRUCTIONS CAREFULLY AND CAUTIONARILY BEFORE USING THE CHARGER AND JIG SAW. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.

The Charger and Jig Saw are specifically designed to work together. DO NOT attempt to use any other cordless tool, charger, or other device with the Jig Saw with any other charger than the one recommended in this manual.

Do not expose the charger to rain or use it in an attachment not recommended or sold by the manufacturer. Do not attempt to repair or modify the charger in a risk of fire, electric shock, or injury to persons. Do not use the charger to cut through materials that could cause the risk of damage to the plug and cord, put by plug and cord when connecting charger.

The charger cord should not be stepped on, tripped over, or otherwise subjected to abuse or stress. Keep the charger cord away from heat, flames, or other fire hazards.

The charger cord should not be used in an extension cord unless absolutely necessary. Do not use the charger in an extension cord that is damaged, frayed, or has exposed wires. Do not use the charger in an extension cord that is not rated for the charger's amperage.

Do not use the charger in an extension cord that is not rated for the charger's amperage. Do not use the charger in an extension cord that is not rated for the charger's amperage. Do not use the charger in an extension cord that is not rated for the charger's amperage.

Table 1

RECOMMENDED MINIMUM AWG* SIZE FOR EXTENSION CORDS FOR BATTERY CHARGERS

AC Input Rating Amperes**	AWG* Size of Cord	Length of Cord, Feet
Equal to or greater than	25	50
1	18	18
2	18	18
3	18	18
4	18	18
150	16	14
16	14	14
14	16	14
14	16	14

*American Wire Gauge

**If the input rating of a charger is given in watts rather than in amperes, the corresponding ampere rating is to be determined by dividing the wattage rating by the voltage rating—for example:

$$\frac{1250 \text{ watts}}{125 \text{ volts}} = 10 \text{ amperes}$$

9. Do not operate a charger with a damaged cord or plug — have them replaced immediately by a qualified service center.

10. Do not operate a charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified Black & Decker Service Center.

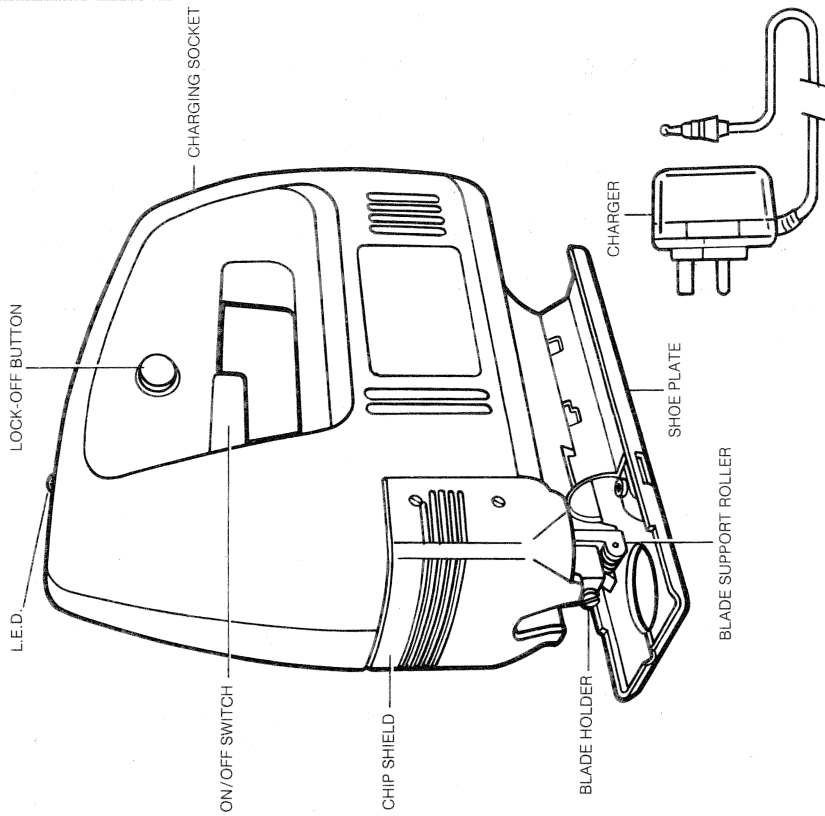
11. Do not disassemble a charger; take it to a qualified Black & Decker Service Center when service or repair is required. Incorrect reassembly may result in a risk of electrical shock or fire. There are no consumer serviceable parts inside.

12. To reduce risk of electric shock, unplug charger from outlet before cleaning.

13. NEVER attempt to connect 2 Chargers together.

14. DO NOT store the Tool in locations where the temperature may reach or exceed 105°F (such as outside sheds or metal buildings in summer).

15. DO NOT charge Jig Saw when it or air temperature is BELOW +40°F or ABOVE +90°F.



16. DO NOT incinerate the Jig Saw even if it is severely damaged or is completely worn out. The batteries can explode in a fire. A small leakage of liquid from the battery cells may occur under extreme usage, charging or temperature conditions. This does not indicate a failure. However, if the outer seal is broken and this leakage gets on your skin—

- Wash quickly with soap and water.
 - Neutralize with a mild acid such as lemon juice or vinegar.
17. The charger is designed to operate on standard household electrical power (120 volts AC only). Do not attempt to use it on any other voltage!
18. Do not attempt to open the charger or Jig Saw.
19. Your Cordless Jig Saw can be left permanently on charge. This will not damage the batteries.

Important Charger Notes (Figure 2)

- To charge the batteries, locate the charging socket in rear of jig saw (Figure 2) and plug the charger into a suitable socket. The L.E.D. will light, indicating the batteries are charging. Charge the batteries for 24 hours the first time or otherwise it will reduce its capacity to accept a full charge in the future.
- When you charge your jig saw for the first time, or after prolonged storage, it will only accept about an 80% charge. However, after several charge and discharge cycles, the batteries will come up to full capacity.
- Longest life and best performance can be obtained if the batteries are charged when the air temperature is about +75°F / 25°C. DO NOT charge the batteries in an air temperature below +40°F / 5°C or above +90°F. This is important and will prevent serious damage to the batteries.

4. While charging, the Charger may hum and become warm to touch. This is a normal condition and does not indicate a problem.

5. If the batteries do not charge properly — (1) Check the current at receptacle by plugging in a lamp or other appliance. (2) Check to see if receptacle is connected to a light switch which turns power off when the light is turned off. (3) Move Charger and Jig Saw to a surrounding air temperature of approximately 75°F. (4) If the receptacle and temperature are ok., and you do not get proper charging, take or send the tool and charger to your local Black & Decker Service Center. See guarantee card.

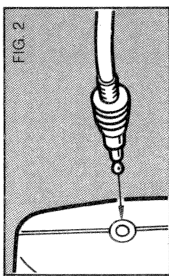
6. The jig saw should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Repeat the charging procedure.

7. If stored without the charger plugged in the batteries may slowly self discharge. Normal charging will make the jig saw ready for use.

8. After prolonged storage or repetitive use the batteries may appear to have reduced capacity. If this occurs adopt the following procedure:

- charge batteries normally
 - fully discharge the batteries (best done by using the jig saw until it no longer cuts easily and then hold the jig saw in mid air with the switch on until the motor stops).
 - charge for 24 hours - the batteries should now have full capacity.
9. The approximate charging time for the Cordless Jig Saw is 3 hours.

FIG. 2

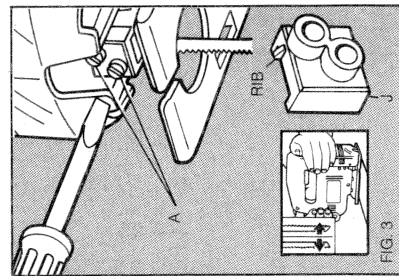


Attaching the Saw Blade (Figure 3)

Do not hold the jig saw by the switch when attaching blades.

To achieve a greater variety of applications this saw has a right angle blade clamp. This allows the teeth to face left or right from the normal direction. To attach this alternative clamp, first remove the standard clamp by removing the two screws marked (A) and then attach the right-angle clamp (J) ensuring that the identification rib is pointing towards the top of the unit. The blade can now be inserted into its location and the clamp fully tightened.

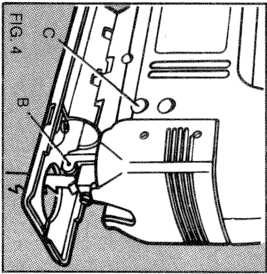
NOTE: When using this alternative clamp, the blade support roller must be adjusted away from the blade. Loosen the slot headed screw on the side of the saw (C) (Figure 4), adjust the roller back as far as it will go and retighten the screw.



Blade Support Roller (Figure 4)

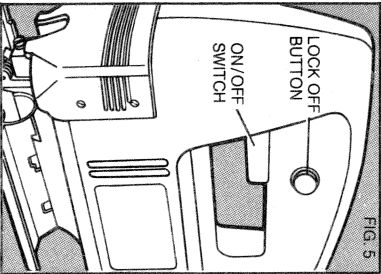
To provide greater blade support this saw is also fitted with a blade support roller. This improves the cutting performance when the saw is used on tougher materials. Each time the saw blade is changed, the blade support roller must be adjusted up to rear of the blade. To do this loosen the slot headed screw on the side of the saw (C) (Figure 4) and adjust the blade support roller so that it LIGHTLY touches the back of the saw blade with the tool running at no load. Retighten the screw.

NOTE: When using a scrolling blade, adjust the Support Roller back (away from the blade) as far as possible.



Switch Operation (Figure 5)

To operate the tool, first press-in the lock off button (Figure 5), and then pull up the on/off switch. Once the on/off switch is released, the unit will cease to operate.



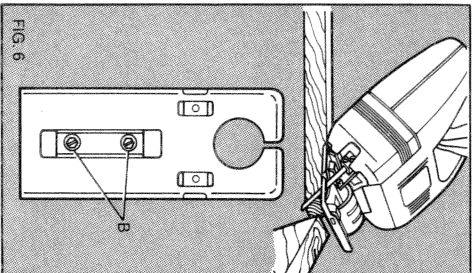
Adjusting the Shoe (Figure 6)

CUTTING ANGLE

The jig saw shoe can be angled relative to the body of the unit from 0°-45° on either side. To achieve this, raise the chip shield, loosen both screws marked B in Figure 6 and tilt the saw to the required angle relative to the shoe. The edge of the motor housing is the line for the required angle. Tighten both screws marked B to secure the shoe at that angle. Although the set scale on the shoe is accurate, for most purposes it is advisable, for very accurate angle cutting to check the angle of cut with a protractor. For flush cutting the shoe should be locked in the 0° position by moving it backwards and tightening both screws marked B. To reset the shoe for a square cut, slacken the clamp screws and move the shoe until it is approximately 30° to the blade, and then, while applying slight forward pressure on the shoe, retighten the clamp screws.

SPLINTER CONTROL

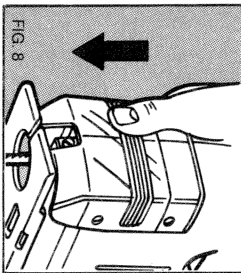
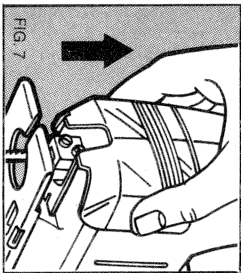
When sawing brittle or thin pieces of wood, splintering can be reduced by moving the shoe to support the wood at the point of cut. To achieve this, loosen both screws marked B in Figure 6 and move the shoe as far back as it will go. Tighten both screws marked B to secure the shoe.



CHIP SHIELD (Figure 7 and 8)

As an added feature, your cordless Jig Saw is fitted with a chip shield. To operate the shield, simply press on the front surface and slide it up (Figure 7) or down (Figure 8) as far as it will go.

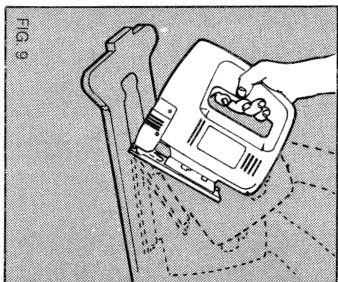
NOTE: When cutting at an angle, always keep the chip shield in the 'up' position.



Operation

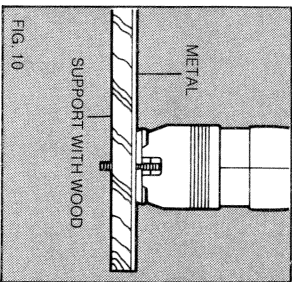
POCKET CUTTING (Figure 9)

The saw blade can be inserted directly into a wood surface without first drilling a pilot hole. (Figure 9) Thus eliminating a tedious operation. First measure and clearly mark the surface to be cut. Then tip the saw forward so that the rounded tips of the shoe rest on the work surface, but with the blade well clear of it. Switch the saw ON and move it in its 'tilled-up' position until the moving blade is exactly over the chosen point of entry. Lower the rear of the shoe toward the work maintaining a firm pivoting pressure on the shoe tips with the blade exactly on the line. **DO NOT MOVE THE SAW FORWARD ALONG ITS CUT** until the saw blade has completely entered the material and the shoe comes to rest flat on its surface.



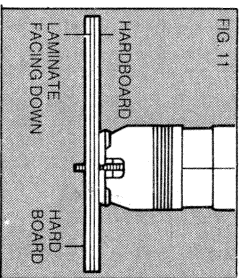
METAL AND LAMINATED CUTTING (Figure 10)

The cordless saw can be used for cutting light gauge metals such as copper, brass aluminum etc. It is advisable when cutting thin sheet metal to clamp a backing sheet of soft wood or plywood to the work as this will enable you to obtain a clean cut without vibration and the possibility of tearing the metal. Both metal and wood backing are sawed together. Do not force the cutting blade into the metal as this will reduce the life of the blade and possibly damage the motor. Cutting thin metal will take longer than cutting even a relatively thick piece of wood, so do not be tempted to speed up the operation by forcing the saw. Spread a thin film of cutting oil along the proposed cutting line before commencing to saw metal. Always select the right blade for the job (consult accessory table).



CUTTING LAMINATES (Figure 11)

The blades of the cordless saw cut on the upstroke so any tendency for edge splintering will occur on the face of the material nearest the saw shoe. When sawing thin wood or plastic laminates use a fine tooth metal cutting blade and cut from the back surface of the material. To minimize the risk of chipping the edges of plastic laminate (such as Formica, Warente, etc.), clamp a piece of scrap wood or hardboard to both sides of the laminate to form a sandwich, and saw through the complete assembly. Always select the right blade for the job (consult accessory table).



Cleaning and Lubrication

Use only mild soap and a damp cloth to clean the tool. Other cleaners contain chemicals which could seriously damage the plastic. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

Self-lubricating bearings are used in the tool and periodic re-lubrication is not required. In the unlikely event that this tool should require service, take or send it to your local Black & Decker Service Center. Service Center addresses are listed on the owner's registration card packed with your tool.

Storage

1. The best storage place is one that is cool and dry — away from direct sunlight, heating pipes and ducts, furnaces, etc.

2. Best storage temperature is approximately +50°F. Do not store where temperatures may go below +40°F or above +90°F. Avoid

storage in outside metal built where the temperature could above +120°F in summer, a could damage the Jig Saw.

3. Long storage will not harm the Saw or Charger. Under the best conditions (given above) the be stored for 5 years or more without harm.

Accessories

The accessories listed in the manual are available at extra cost from your local dealer or Black Decker Service Center. A complete listing of service centers is included on the owner's registration card packed with your tool.

If you need assistance in any accessory, please contact Black & Decker (U.S.) Inc.

User Services Department
P.O. Box 857

10 North Park Drive
Hunt Valley, MD 21030-08

Recommended Accessory:
your tool are shown in this mar

The use of any other Accessory strongly recommend that you purchase Safety Glasses which should be worn when using all

Following Jig Saw Accessories:
Cordless Accessories should be only in the sizes specified below

REGULAR CUTTING BLADE
Rough, straight cuts in wood

3 1/2 in. long 3 1/2 in. long 3 1/2 in. long
7 or 10 7 teeth per 10 teeth per

inch per inch per inch

SPECIALTY CUTTING BLADE
Flush wall, joint cut, knife edge

special materials
3 1/2 in. long 3 in. long
7 teeth per inch

RIP FENCE
For straight ripping

FINISH CUTTING BLADES
Straight or scull cuts in wood, laminates

3 in. long 3 in. long 3 in. long
20 teeth 10 teeth 10 teeth
per inch per inch per inch

METAL CUTTING BLADES
Cuts through ferrous and non-ferrous metals

3 in. long 3 in. long
32 teeth per inch 24 teeth per